

FORM PTO 1449  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT	ATTY DOCKET NO. <b>DEH073</b>	SERIAL NO. N/A <i>10/829 481</i>
	APPLICANT <b>Bateman et al.</b>	
	FILING DATE Herewith <i>1/22/94</i>	GROUP N/A <i>2881</i>

### U.S. Patent Documents

Examiner Initial	Document Number	Date	Patentee/Applicant	Class	Subclass	Filing Date if Appropriate
<i>MA</i>	3,621,242	11/71	FERGUSON ET AL.			
	4,072,862	02/78	MAMYRIN ET AL.			
	4,904,872	02/90	GRIX ET AL.			
	5,077,472	12/91	DAVIS			
	5,206,506	04/93	KIRCHNER			
	5,245,192	09/93	HOUSEMAN			
	5,280,175	01/94	KARL			
	5,572,035	11/96	FRANZEN			
	5,654,543	08/97	LI			
	5,661,300	08/97	HANSEN			
	5,811,800	09/98	FRANZEN ET AL.			
	5,818,055	10/98	FRANZEN			
	5,847,386	12/98	THOMSON ET AL.			
	5,880,466	03/99	BENNER			
	5,905,258	05/99	CLEMMER ET AL.			
	6,107,628	08/00	SMITH ET AL.			
	6,348,688	02/02	VESTAL			
	6,417,511	07/02	RUSS, IV ET AL.			
	6,483,109	11/02	REINHOLD ET AL.			
	6,545,268	04/03	VERENTCHIKOV ET AL.			
	6,559,444	05/03	FRANZEN			
	6,593,570	07/03	LI ET AL.			
	6,617,577	09/03	KRUTCHINSKY ET AL.			
	6,642,514	11/03	BATEMAN ET AL.			
	6,670,606	12/03	VEREBTCHIKOV ET AL.			
	2002/0063207	05/02	BATEMAN ET AL.			
	2002/0063209	05/02	BATEMAN ET AL.			
	2002/0063210	05/02	BATEMAN ET AL.			
	2002/0079443	06/02	KRUTCHINSKY ET AL.			
	2002/0113207	08/02	LEE ET AL.			
<i>MA</i>	2002/0148959	10/02	WEISS ET AL.			

### Foreign Patent Documents

Examiner Initial	Document Number	Publication Date	Country/Agency	Class	Subclass	Translation	
						Yes	No
<i>mw</i>	2,281,405	03/00	Canada				
	1,271,138	01/03	EP				
	11-307040	11/99	Japan				
	2000-113852	04/00	Japan				
	2000-123780	04/00	Japan				
	2,315,364	01/98	UK				
	WO 92/14259	08/92	WO				
	WO 97/49111	12/97	WO				
<i>hw</i>	WO 02/43105	05/02	WO				

### Other Documents (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

<i>mw</i>	Gerlich, "Rf Ion Guides", Encyclopedia of Mass Spectrometry, Vol. 5 Chemistry and Physics of Gas-Phase Ions, pp. 1-34, 2003.
	Giles et al., "Evaluation of a Stacked-Ring Radio Frequency Ion Transmission Device at Intermediate Pressures", ASMS, 2001.
	Luca et al., "On the Combination of a Linear Field Free Trap With a Time-of-Flight Mass Spectrometer", Review of Scientific Instruments, Vol. 72, No. 7, pp. 2900-2908, 2001.
	Kim et al., "Design and Implementation of a New Electrodynamical Ion Funnel", Analytical Chemistry, Vol. 72, No. 10, pp. 2247-2255, 2000.
	Tolmachev et al., "Charge Capacity Limitations of Radio Frequency Ion Guides in Their Use for Improved Ion Accumulation and Trapping in Mass Spectrometry", Analytical Chemistry, Vol. 72, No. 5, pp. 970-978, 2000.
	Shaffer et al., "Characterization of an Improved Electrodynamical Ion Funnel Interface for Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 71, No. 15, pp. 2957-2964, 1999.
	Shaffer et al., "An Ion Funnel Interface for Improved Ion Focusing and Sensitivity Using Electrospray Ionization Mass Spectrometry", Analytical Chemistry, Vol. 70, No. 19, pp. 4111-4119, 1998.
	Shaffer et al., "A Novel Ion Funnel for Focusing Ions at Elevated Pressure Using Electrospray Ionization Mass Spectrometry", Rapid Communications in Mass Spectrometry, Vol. 11, pp. 1813-1817, 1997.
	Shaffer et al., "A Novel Ion Funnel for Ion Focusing at Elevated Pressures", ASMS Book of Abstracts, pp. 375, 1997.
	Franzen et al., "Electrical Ion Guides", ASMS Book of Abstracts, pp. 1170, 1996.
	Guan et al., "Stacked-Ring Electrostatic Ion Guide", Journal American Society for Mass Spectrometry, Vol. 7, pp. 101-106, 1996.
	Gerlich et al., "Ion Trap Studies of Association Processes in Collisions of $\text{CH}_3^+$ and $\text{CD}_3^+$ with $n\text{-H}_2$ , $p\text{-H}_2$ , $\text{D}_2$ , and He at 80 K", The Astrophysical Journal, Vol. 347, pp. 849-854, 1989.
	Teloy et al., "Integral Cross Sections for Ion-Molecule Reactions. 1. The Guided Beam Technique", Chemical Physics, pp. 417-427, 1974.
<i>mw</i>	Gerlich, "Inhomogeneous RF Fields: A Versatile Tool For the Study of Processes With Slow Ions", Advances in Chemical Physics Series, Vol. 82, pp. 1-176, 1992.

Examiner <i>[Signature]</i>	Date Considered <i>7/6/01</i>
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Examiner: Initial if citation is considered, whether or not citation is in conformance with MPEP 609; Draw a line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.